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TECHNOLOGICAL DIVISION

29. (Twice Amended) Process which comprises: coating

sub E<sup>1</sup> substrates with a polar coating, wherein the coating takes place  
by means of plasma polymerization; including the step of  
employing a water-free process gas which contains at least one  
substituted hydrocarbon compound with up to a maximum of 8 C-  
atoms and also an inorganic gas, to produce a coating which is  
stable in the long term; and wherein the coating comprises 2 to  
4 gases of the following: CO<sub>2</sub>, CH<sub>4</sub>, O<sub>2</sub>, C<sub>2</sub>H<sub>2</sub>, NH<sub>3</sub> and Ar.

30. (Amended) Process according to claim 29, wherein the  
coating is a process gas of CO<sub>2</sub>, C<sub>2</sub>H<sub>2</sub> and Ar.

32. (Amended) Process according to claim 29, wherein the  
coating is a process gas of NH<sub>3</sub>, CO<sub>2</sub>, CH<sub>4</sub> and Ar.

34. (Amended) Process according to claim 29, wherein the  
coating is a process gas of CO<sub>2</sub> and CH<sub>4</sub>.

36. (Amended) Process according to claim 29, wherein the  
coating is a process gas of CO<sub>2</sub>, CH<sub>4</sub> and Ar.

E<sup>5</sup> 38. (Amended) Process according to claim 29, wherein the coating is a process gas of CO<sub>2</sub> and Ar.

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E<sup>6</sup> 40. (Amended) Process according to claim 29, wherein the coating is a process gas of CH<sub>4</sub>, O<sub>2</sub> and Ar.

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E<sup>7</sup> 42. (Amended) Process according to claim 29, wherein the coating is a process gas of CO<sub>2</sub>, CH<sub>4</sub>, O<sub>2</sub> and Ar.

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E<sup>8</sup> 44. (Amended) Process according to claim 29, wherein the coating is a process gas of CH<sub>4</sub>, NH<sub>3</sub> and Ar.

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46. (Twice Amended) Process which comprises: coating substrates with a polar coating, wherein the coating takes place by means of plasma polymerization; including the step of employing a water-free process gas which contains at least one substituted hydrocarbon compound with up to a maximum of 8 C-atoms and also an inorganic gas, to produce a coating which is stable in the long term; wherein the polar coating has an initial surface tension of < 45 mN/m, which remains unchanged for at least one year.

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E<sup>10</sup> 48. (Twice Amended) Process which comprises: coating substrates with a polar coating, wherein the coating takes place

by means of plasma polymerization; including the step of employing a water-free process gas which contains at least one substituted hydrocarbon compound with up to a maximum of 8 C-atoms and also an inorganic gas, to produce a coating which is stable in the long term; and wherein said coating step further comprises coating at least one of packing materials and substrates for adhesion of composite materials.

50. (Twice Amended) Process which comprises: coating substrates with a polar coating, wherein the coating takes place by means of plasma polymerization; including the step of employing a water-free process gas which contains at least one substituted hydrocarbon compound with up to a maximum of 8 C-atoms and also an inorganic gas, to produce a coating which is stable in the long term; and the substrate is at least one of ceramic and metal substrates.